

# Elizabeth Rockey Seidle

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## EDUCATION

### **PENN STATE UNIVERSITY**

#### **MPS IN DATA ANALYTICS**

Dec 2020 | State College, PA

#### **GRADUATE CERTIFICATE IN APPLIED STATISTICS**

May 2021 | State College, PA

#### **BS IN PSYCHOLOGY**

#### **BS IN LABOR STUDIES**

May 2014 | State College, PA

Schreyer Honors College

## LINKS

Github:// [ElizabethSeidle/Portfolio](#)

LinkedIn:// [elizabeth-seidle/](#)

## COURSEWORK

### **GRADUATE**

Predictive Analytics

App. Data Mining & Statistical Learning

Data Mining

Data Collection and Cleaning

Analytics Programming in Python

Regression Methods

ANOVA Methods

Applied Statistics

Java Programming

Database Design Concepts

Large-scale Database and Warehouse

Data-Driven Decision Making

## SKILLS

### **TOOLS**

Proficient:

Python • R • SQL • SPSS • DAX •

Jupyter • Collab • PowerBI

Familiar:

NoSQL • VBA • SAS • HTML • Java •

MongoDB • Hadoop • Docker • Latex

### **TECHNICAL SKILLS**

- Data Cleaning and Processing
- Data Visualization
- Exploratory Data Analysis
- Natural Language Processing
- Unsupervised/Clustering methods
- Regression methods
- Classification methods
- Dimensionality Reduction

## EXPERIENCE

### **DATA ANALYTICS CONSULTANT | OUTREACH ANALYTICS AND REPORTING**

2019 - Present | State College, PA

- Use data analytics and statistical methods to evaluate student success, retention initiatives, and KPIs
- Build PowerBI dashboards

### **TRAINING GRANT COORDINATOR | STRATEGIC INTERDISCIPLINARY RESEARCH OFFICE**

2016 - 2019 | State College, PA

- Data collection, reporting, and visualizations for training grant applications using institutional and national data
- Serve as project manager for large and/or strategic proposal development

### **SENIOR RESEARCH ASSISTANT AND STUDY COORDINATOR | RELATIONSHIP AND STRESS LAB**

2012 - 2016 | State College, PA

- Study design, project management, data collection, data cleaning, and data analysis on various projects

### **RESEARCH ASSISTANT | CENTER FOR INTERNATIONAL HUMAN RESOURCES STUDIES**

2014 - 2015 | State College, PA

- Data collection, survey design, data cleaning, and data analysis on CRANET study and Union-worker project

### **RESEARCH ASSISTANT | COGNITIVE NEUROPSYCHOLOGY LAB**

2014 - 2015 | State College, PA

- Data collection, entry and data reliability checking for a post-concussion symptom study

## PRESENTATIONS AND PUBLICATIONS

Dornick, C., Kumar, A., Seidenberger, S. Seidle, E., Mukherjee, P. (2021) Analysis of Patterns and Trends in COVID-19 Research, Procedia Computer Science, 185, 302-310. <https://doi.org/10.1016/j.procs.2021.05.032>

2021 | Penn State Data Summit Conference

Power BI - Improved Reporting: How it can work for you (Conference Session)

2021 | Hendrick Best Practices for Adult Learners Conference

Understanding Penn State's Adult Learners Through Data and Dashboards (Conference Session)

2020 | National Symposium on Student Retention Annual Conference

Leveraging Data Visualizations to Expand Awareness Around Student Success (Poster)

2018 | National Organization of Research Development Professionals 10th Annual Conference

Understanding the Name of the Game: Inside a National Science Foundation (NSF) Panel Review (Pre-Conference Workshop)

2017 | National Symposium on Student Retention Annual Conference

Separating the Wheat: Inside a National Science Foundation (NSF) Review Panel (Conference Session)

2015 | Association for Behavioral and Cognitive Therapies

Men with a History of Childhood Maltreatment Who Perceive Their Wives as Threatening Perpetrate More Intimate Partner Violence (Poster)